Abstract

In this paper, the design of a low-pass minimum phase equiripple finite impulse response (FIR) digital filter from the given low-pass linear phase equiripple. The initial linear phase transfer function is obtained by standard Parks-McClellan algorithm. The shorter group delay should be minimal for efficient performance of digital pulse shaping filter like it improves the performance parameters like increased Capacity, reduced BER, better S/N ratio, and Reduced ISI (noise). The small group delay minimum phase filter coefficients were subjected to QAM (32, 64, and 128) system. The minimum phase filter performed well in terms of bit error rate (BER) parameter.

References

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Index Terms

Computer Science
Algorithms

Keywords
Linear phase FIR filter Minimum phase filter QAM BER.